In the Claims

The following is an amendment to and a complete listing of claims that replaces all prior versions, and listings, of claims in this application.

Listing of Claims:

1. (Currently amended) A method of determining characteristics representative of a physical and/or chemical transformation, in particular a reaction, the transformation occurring in a medium, in particular a reaction medium, flowing within at least one microreactor [[(1)]], the method comprising the following steps:

    [[·]] establishing a flow of the medium under steady conditions through at least one region (6) of the microreactor <u>wherein the steady conditions of the flow of the medium are provided so that firstly, magnitudes of the transformation involved in the medium at a given point in time are constant over time, and secondly, parameters relating to flow of the medium, including a flow rate thereof, are constant over time, with the flow rate being in a range of 1mL/h to 1L/h</u>;

    [[·]] using <u>an</u> analyzer ~~means (11)~~ to access the steady flow at at least one point ~~(6₁, 6₂)~~;

    [[·]] measuring at least one magnitude characteristic of the medium at the ~~or each~~ <u>at least one</u> point ~~(6₁, 6₂)~~ by using the analyzer ~~means (11)~~; and

    [[·]] determining ~~(via 10', BR)~~ characteristics representative of the transformation as a function of the result of the ~~or each~~ <u>at least one</u> measurement.

2. (Currently amended) A method according to claim 1, ~~characterized in that~~ <u>including accessing</u> the steady flow ~~is accessed~~ at different points ~~(6₁, 6₂)~~ that are distinct from one another in time and/or space.

3. (Currently amended) A method according to claim 2, ~~characterized in that~~ <u>including accessing the</u> different points ~~(6₁, 6₂) are accessed that are distinct from one another in space~~ <u>at spaced locations.</u>

4. (Currently amended) A method according to claim 3, ~~characterized in that~~ <u>wherein</u>, in order to access the different points, the microreactor is displaced while keeping the analyzer [[means]] stationary.

5. (Currently amended) A method according to claim 3, ~~characterized in that~~ <u>wherein</u>, in order to access the different points, the analyzer [[means]] is displaced while keeping the microreactor stationary.

6. (Currently amended) A method according to claim 1, ~~characterized in that~~ wherein the analyzer [[means]] is <u>used so as to be</u> non-destructive with respect to the reaction medium.

7. (Currently amended) A method according to claim 1, ~~characterized in that~~ <u>wherein</u> the analyzer ~~means is invasive, in particular the sensor is~~ <u>includes</u> a <u>sensor</u> probe <u>and the probe is placed into the flow of medium.</u>

8. (Currently amended) A method according to claim 1 [[to 6]], ~~characterized in that the or each~~ <u>wherein the at least one</u> point of the steady flow is accessed through a zone [[(8)]] of the microreactor [[(1)]] that is permeable to the analyzer ~~means (11), in particular~~ <u>and includes</u> a window [[(8)]] that is transparent to visible light.

9. (Currently amended) A method according to claim 1, ~~characterized in that~~ <u>wherein</u> the transformation is a chemical and/or physical reaction.

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10. (Currently amended) A method according to claim 1, ~~characterized in that~~ <u>wherein</u> the transformation is a crystallization.

11. (Currently amended) A method according to claim 1, ~~characterized in that~~ <u>wherein</u> the steady flow possesses a rate lying in ~~the range 1 mL/h to 1 L/h, and preferably~~ in the range <u>of</u> 0.1 L/h to 1 L/h.

12. (Currently amended) A method according to 1, ~~characterized in that~~ <u>wherein the</u> parameters specific to the transformation are determined ~~(by 10')~~ as characteristics representative of [[said]] <u>the</u> transformation.

13. (Currently amended) A method according to claim 1, ~~characterized in that~~ <u>wherein the</u> running parameters of the transformation are determined (by BR) as characteristics representative of the transformation.

14. (Currently amended) A method according to claim 13, ~~characterized in that the or each microreactor (1) within which the running parameters of the transformation are determined is/are~~ <u>wherein a plurality of microreactors are</u> disposed in parallel <u>with one another</u> ~~other microreactors (1₂, ..., 1ₙ)~~, and <u>feeding</u> the ~~various~~ <u>plurality of</u> microreactors ~~are fed~~ with the same media, possessing the same flow rates, and under the same operating conditions.

15. (Currently amended) A method according to claim 14, ~~characterized in that the various parallel-connected~~ <u>wherein the plurality of </u>microreactors ~~(1, 1₂, ..., 1ₙ)~~ are fed by ~~means of~~ a single upstream feed line [[(L)]].

16. (Currently amended) A method according to claim 13, ~~characterized in that~~ <u>wherein</u> at least one instantaneous value (<u>m</u>) is obtained of at least one magnitude characteristic of the

medium, the ~~or each~~ at least one instantaneous value is compared
with a reference value (c) for the ~~or each~~ at least one
characteristic magnitude, and the running of the transformation
is modified (by s) as a function of [[the]] a value of [[the]] a
ratio between said measured value and said reference value.

17. (Currently amended) An installation for determining
characteristics representative of a physical and/or chemical
transformation, in particular a reaction, for implementing the
method in accordance with claim 1, said transformation occurring
in ~~a medium, in particular~~ a reaction medium, and the
installation comprising:
        [[·]] at least a first microreactor [[(1)]] through which
[[said]] the medium is suitable for flowing;
        [[·]] an analyzer means [[(11)]];
        [[·]] means [[(8)]] for accessing at least one point of a
flow of the medium under steady conditions in at least one region
[[(6)]] of the first microreactor;
        [[·]] means ~~(10, 11)~~ for taking at least one measurement of
at least one magnitude characteristic of the medium ~~in the or
each~~ the at least one point; and
        [[·]] means ~~(10', BR)~~ for determining characteristics
representative of the transformation as a function of [[the]] a
result of the ~~or each~~ at least one measurement.

18. (Currently amended) An installation according to claim 17,
~~characterized in that~~ including displacement means ~~are provided
suitable~~ for displacing the analyzer means [[(11)]] and the
microreactor [[(1)]] relative to each other.

19. (Currently amended) An installation according to claim 17,
~~characterized in that~~ wherein the analyzer means is non-
destructive relative to the reaction medium.

20. (Currently amended) An installation according to claim 17, ~~characterized in that~~ wherein the analyzer means ~~is intrusive, in particular the~~ includes a sensor [[is a]] probe.

21. (Currently amended) An installation according to claim 17, ~~characterized in that~~ wherein the access means ~~comprise~~ includes ~~a zone (8) of the microreactor (1) that is permeable to the analyzer means (11), in particular~~ a window [[(8)]] that is transparent to visible light.

22. (Currently amended) An installation according to claim 17, ~~for implementing the method according to claim 12, the installation being characterized in that~~ wherein the means for determining characteristics representative of the transformation are means [[(10')]] for determining parameters specific to [[said]] the transformation.

23. (Currently amended) An installation according to claim 22, ~~characterized in that~~ wherein the means for determining parameters specific to [[said]] the transformation include a computer [[(10')]].

24. (Currently amended) An installation according to claim 17, ~~the installation being characterized in that~~ wherein the means for determining characteristics representative of the transformation are means (BR) for determining running parameters for [[said]] the transformation.

25. (Currently amended) An installation according to claim 24, ~~characterized in that~~ wherein the means for determining running parameters of the transformation ~~comprise~~ a regulation loop (BR).

26. (Currently amended) An installation according to claim 25, ~~characterized in that~~ wherein the regulation loop (BR) ~~possess~~ includes a measurement line (m) ~~put into~~ in communication with the analyzer means ~~(11) and suitable~~ for providing at least one

instantaneous value of at least one characteristic magnitude, a reference line (~~c~~) ~~suitable~~ for providing at least one reference value for at least one characteristic magnitude, and an output line (~~s~~) ~~put into~~ in communication with means [[(12)]] for running the reactor.

27. (Currently amended) An installation according to claim 24, ~~characterized in that it further comprises~~ including at least one [[other]] second microreactor ~~(1₂, ..., 1ₙ)~~ connected in parallel with the ~~or each~~ first microreactor (1).

28. (Currently amended) An installation according to claim 27, ~~characterized in that~~ wherein the ~~various~~ first and second microreactors ~~(1, 1₂, ..., 1ₙ)~~ are fed by means of a single upstream feed line [[(L)]].